

ABSTRACT AND BIOGRAPHY

A System for Innovation

Organizations today are faced with a two-fold challenge to innovation. The organization needs to continuously improve products and services for existing customers (incremental innovation) and needs to seek future solutions that may disrupt current technologies or practices due to research and development break-throughs. The two cultures that manage these different types of innovation are unique. The current organization may be risk averse and seek only small, incremental changes (failure is not an option). The second organization seeks new, radical, disruptive innovations (fail fast, fail forward, fail often). We present today a system for innovation to manage this hybrid organization to maximize the success for both incremental and disruptive innovation.

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Dr. Davis is the Director, Space Life Sciences at the NASA Johnson Space Center. In this capacity, he is responsible for operations, research and services in support of human space flight. The key technical areas within Space Life Sciences include space medicine, biomedical research, and human factors, the environment and habitability.

Prior to this position Dr. Davis served as a professor of clinical preventive medicine at the University of Texas Medical Branch, the corporate medical director for American Airlines, and the chief of medical operations for the NASA Johnson Space Center.

Dr. Davis is board certified in preventive medicine with a specialty area of aerospace medicine. He holds medical licenses in Texas and California. He has received several NASA awards and external association awards, and is the senior editor of the text "Fundamentals of Aerospace Medicine."

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Elizabeth E. Richard is senior strategist with the Wyle Integrated Science and Engineering Group. She is responsible for strategy formulation and execution supporting human space exploration for the Space Life Sciences Directorate at the NASA Johnson Space Center. In this role she focuses on long range strategic planning, alliance development, and strategic communications, with an emphasis on collaborative innovation. Additionally, Ms. Richard supports astronaut health and medical policy formulation and spaceflight human system standards development for the Office of the Chief Health and Medical Officer at NASA

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Headquarters. Other contributions to human spaceflight include development of International Space Station environmental health and life support systems at both the Johnson Space Center and Marshall Space Flight Center.

Previous positions held by Ms. Richard include associate dean for enrollment and external communications for Temple University's Ambler Campus; administrator and director of business development for the Preventive, Occupational, and Environmental Medicine department at the University of Texas Medical Branch; and management consultant for Amoco's Worldwide Exploration Business Group; all of which included responsibility for various internal and external strategic initiatives. She received her B.S. degree in Microbiology from the Pennsylvania State University and her M.B.A. from the University of Houston.